

IN THE CLAIMS:

Please cancel Claim 5 without prejudice or disclaimer of subject matter, and amend Claims 1 to 4, 6 and 7 as shown below. The claims, as currently pending in the application, read as follows:

1. (Currently Amended) A photonic circuit board comprising:
a connection-setting circuit;
a group of electric wires for connecting the connection-setting circuit and a plurality of devices;
an optical I/O device connected to the connection-setting circuit
and a two-dimensional
a two-dimensional optical transmission medium connected to the for
transmitting optical signals;
a plurality of optical I/O device and adapted to transmit optical signals, the
connection-setting circuit including a circuit capable of changing the mode of connection of
said devices connected to the two-dimensional optical transmission medium;
a reconfigurable integrated circuit connected to the plurality of optical I/O
devices;
a group of electric wires and said connected to the reconfigurable integrated
circuit, said electric wires being adapted for connecting a plurality of electronic devices to
the reconfigurable integrated circuit; and
a mediating device for transmitting a signal to the reconfigurable integrated
circuit such that the reconfigurable integrated circuit changes a mode of connection among

the plurality of electronic devices and the plurality of optical I/O device devices in accordance with the signal.

2. (Currently Amended) A photonic circuit board according to claim 1, wherein ~~said connection setting circuit is a reconfigurable integrated circuit~~ the number of said optical I/O devices is smaller than the number of said electronic devices to be connected.

3. (Currently Amended) A photonic circuit board according to claim [[2]] 1, wherein said reconfigurable integrated circuit is formed by using a field programmable gate array.

4. (Currently Amended) A photonic circuit board according to claim 1, wherein ~~said connection setting circuit is so arranged that a number of electric wires of the group of electric wires are connected~~ reconfigurable integrated circuit connects two or more electric wires to a single optical I/O device.

5. (Cancelled).

6. (Currently Amended) A photonic circuit board according to claim 1, wherein ~~said optical I/O device is a~~ devices are photonic ball ~~IC~~ ICs.

7. (Currently Amended) A semiconductor apparatus comprising a photonic circuit board according to claim 1, wherein a number of electronic devices are connected to the group of electric wires, ~~wires according to claim 1~~.